

WHAT IS CLAIMED IS:

1. A computer system, comprising,
a writing instrument that generates ballistic information
5 from a user's handwriting; and
a conversion component that utilizes the ballistic
information to generate line thickness information.

2. The computer system of claim 1, wherein the writing
10 instrument is a pen.

3. The computer system of claim 1, wherein the writing
instrument comprises an accelerometer configured to generate
the ballistic information.

4. The computer system of claim 3, wherein the
15 accelerometer generates analog ballistic information, and
wherein the writing instrument comprises an analog-to-digital
converter for converting the analog ballistic information to
20 digital data.

5. The computer system of claim 4, wherein the
conversion component is located remote from the writing

instrument, and further comprising transmitting the digital data to the conversion component.

6. The computer system of claim 5, wherein the digital data is transmitted via a wireless connection.

7. The computer system of claim 5, wherein the digital data is transmitted via a hardwired connection.

10 8. The computer system of claim 3, wherein the accelerometer is configured to generate tilt information.

15 9. The computer system of claim 8, wherein the conversion component generates thickness information based upon spacing of plots in a map of a plot of the ballistic information.

20 10. The computer system of claim 9, wherein the thickness information is based upon the samples/unit distance of the plots.

11. The computer system of claim 10, wherein the thickness information increases a thickness component as the samples/unit distance increase.

12. The computer system of claim 3, wherein the conversion component generates thickness information based upon wavelengths of the ballistic information.

5

13. The computer system of claim 12, wherein the thickness information increases a thickness component as the wavelengths increase.

10

14. The computer system of claim 1, wherein the conversion component is located remote from the writing instrument, and further comprising transmitting the digital data to the conversion component.

15

15. The computer system of claim 14, wherein the digital data is transmitted via a wireless connection.

20

16. The computer system of claim 14, wherein the digital data is transmitted via a hardwired connection.

17. The computer system of claim 3, wherein the ballistic information comprises tilt information.

18. The computer system of claim 17, wherein the conversion component generates thickness information based upon spacing of plots in a map of a plot of the tilt information.

5

19. The computer system of claim 18, wherein the thickness information is based upon the samples/unit distance of the plots.

10 20. The computer system of claim 19, wherein the thickness information increases a thickness component as the samples/unit distance increase.

15 21. The computer system of claim 1, wherein the ballistic information comprises pulses having wavelengths.

22. The computer system of claim 21, wherein the thickness information increases a thickness component as the wavelengths increase.

20